# Jumping Snakes

*Build a pair of snaky paper springs that jump higher as a team.*

**Kit contains:**

- 2 pieces of green cardstock with dashed lines
- 1 skinny strip of red paper
- 4 circle stickers

**You will need:** glue, scissors, and coloring supplies.

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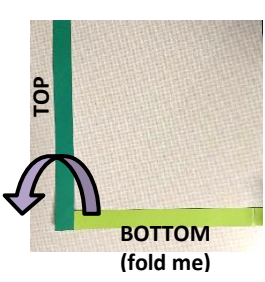
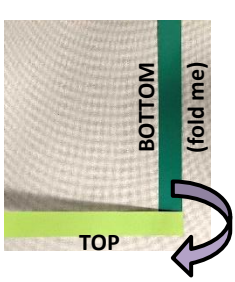
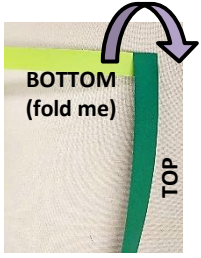
# INSTRUCTIONS

**Step 1.** Cut the green cardstock along the dashed lines to create eight 1-inch-wide strips. (**Note:** You can recycle the skinny margin strips or save them to make an experimental skinny snake later.)

**Step 2.** Glue pairs of same-green cardstock strips together to make 4 long strips. This project works best if strips only overlap a little bit.



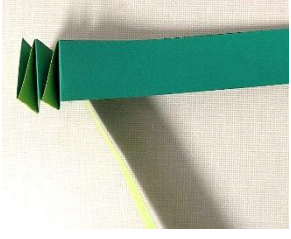



**Step 3.** Glue the ends of two long strips together to form a right angle.

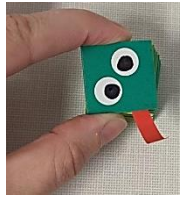
**Step 4.** Fold the bottom strip over the square intersection. This strip is now on top. Fold the new bottom strip over the square intersection. Repeat until you are out of cardstock. Glue the loose ends together to complete the spring.

**Step 5.** Repeat steps 2–4 to make a second paper spring.

**Step 6.** Snakify the springs! Color the sticker circles to make eyes and cut tongues out of the red paper.



**Jump!** Give one of your snakes a good stretch. Then, holding it by the edges of its head, press the snake down onto a flat surface. Release to let it spring into the air.



**Double Jump!** Stack your two snakes. Hold onto the edges of just the top snake's head and press them both down onto a flat surface. Release! The top snake should jump higher and get more airtime.

## SPRINGS!

A spring holds potential energy when you change it from its original shape. There are three main types of springs: **compression**, **tension**, and **torsion**. When a load squishes the coils of a compression spring together, it results in a pushing force that tries to lengthen the spring back out again. Your snakes are cardstock versions of compression springs.

*https://kids.britannica.com/kids/article/spring/476322*